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3/15 - (C) FILE CA

AN - 136:134987 CA

TI - Process for preparing low molecular polysaccharide and oligosaccharide thereof by photochemical or ultrasonic degradation of polysaccharides

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PA - S. Korea

SO - Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT - Patent

LA - Korean

IC - ICM C07H003/00

CC - 33-5 (Carbohydrates)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PN - KR2000012173 A 20000306 KR 1999-10444 19990326

PR - KR 1999-10444 19990326

AB - Low mol. polysaccharide and oligosaccharide are prepd. by ultrasonic irradiation of the polysaccharide in a solvent. The polysaccharides such as chitin, chitosan, cellulose and its derivs., starch and its derivs., glycogen and its derivs., heparin, hyaluronic acid, alginic acid, gum or pectin are dissolved in the solvent selected from sulfonic acid and benzoic acid, etc., followed by irradiation of light, ultrasonic, UV, gamma ray or electron beam to give polysaccharide and oligosaccharide. For an example, 1.5 g of chitosan was suspended in 100 g of ion exchanged water, followed by addition of 0.6 g of acetic acid, and swelled at room temp. Obtained soln. was irradiated by a high pressure mercury lamp having 190-340 nm wave length to give low mol. polysaccharide and oligosaccharide.

ST - low mol polysaccharide oligosaccharide prepn; photochem degrdn polysaccharide; ultrasonic degrdn polysaccharide; UV degrdn polysaccharide

IT - Electron beams

Gamma ray

Gums and Mucilages

Photolysis

Sound and Ultrasound

UV radiation

(process for prepg. low mol. polysaccharide and oligosaccharide thereof by photochem. or ultrasonic degrdn. of polysaccharides in acid solvent)

IT - Sulfonic acids, uses

RL: NUU (Other use, unclassified); USES (Uses)

(process for prepg. low mol. polysaccharide and oligosaccharide thereof by photochem. or ultrasonic degrdn. of polysaccharides in acid solvent)

IT - Polysaccharides, preparation